

Notice of Allowability

Application No.

10/035,981

Examiner

Philip B. Tran

Applicant(s)

LEVANON ET AL.

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/19/2006.
2. ☒ The allowed claim(s) is/are 1 and 16 (Renumbered as 1 and 2).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date Attached.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

Philip Tran
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Isaac Levanon and Mr. Yoni Lavi on August 21, 2006.

The application has been amended as follows:

IN THE CLAIMS:

Claims 2-15 and 17-20 have been canceled.

Claims 1 and 16 have been amended.

Amend claim 1 as follows:

1. (Currently Amended) A client system for dynamic visualization of image data provided through a network communications channel, said client system comprising:

a) a parcel request subsystem, including a parcel request queue, operative to request discrete image data parcels in a priority order and to store received image data parcels in a parcel data store, said parcel request subsystem being responsive to an image parcel request of assigned priority to place said image parcel request in said parcel request queue ordered in correspondence with said assigned priority; and

b) an parcel rendering subsystem coupled to said parcel data store to selectively retrieve and render received image data parcels to a display memory, said parcel rendering system providing said parcel request subsystem with said image parcel request of said assigned priority [[.]] ;

wherein said parcel rendering subsystem determines said assigned priority based on a determined optimal image resolution level;

wherein said display memory is coupled to an image display of predetermined resolution and wherein said determined optimal image resolution level is based on said predetermined resolution;

wherein said assigned priority further reflects the proximity of the image parcel referenced by said image parcel request to a predetermined focal point;

wherein said discrete image data parcels are of a first fixed size as received by said parcel request subsystem and of a second fixed size as rendered by said parcel rendering subsystem; and

wherein said discrete image data parcels each includes a fixed-size array of pixel data.

Amended claim 16 as follows:

16. (Currently Amended) A method of supporting dynamic visualization of image data transferred through a communications channel, said method comprising the steps of:

a) determining, in response to user navigational commands, a viewpoint orientation with respect to an image displayed within a three-dimensional space;

b) requesting, in a priority order, image parcels renderable as corresponding regions of said image, each said image parcel having an associated resolution, wherein said priority order is determined to provide a progressive regional resolution enhancement of said image as each said image parcel is rendered;

c) receiving a plurality of image parcels through said communications channel;
and

d) rendering said plurality of image parcels to provide said image [[.]] ;

wherein said step of receiving includes the step of storing said plurality of image parcels in an image store and wherein said step of rendering provides for the selective rendering of said plurality of image parcels having the highest associated resolutions to the corresponding regions of said image;

wherein said step of rendering limits the selective rendering of said image parcels to image parcels having associated resolutions less than a predetermined level;

wherein said step of rendering selectively renders said plurality of image parcels as the unique textures for the corresponding regions of said image;
and

wherein said priority order is re-evaluated in response to a change in said viewpoint orientation.

REASONS FOR ALLOWANCE

3. Claims 1 and 16 (renumbered as 1 and 2) are allowable over the prior art of record.

4. This communication warrants no examiner's reason for allowance, as applicant's reply makes evident the reason for allowance, satisfying the record as whole as required by rule 37 CFR 1.104 (e). In this case, the substance of applicant's Rule 131 or 132 Affidavits filed on 19 June 2006 and further amended claim limitations in the Examiner's Amendment filed on 21 August 2006 point out the reason claims are patentable over the prior art of record. Thus, the reason for allowance is in all probability evident from the record and no statement for examiner's reason for allowance is necessary (see MPEP 13202.14).

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip B. Tran whose telephone number is (571) 272-3991. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip Tran
Philip B. Tran
Primary Examiner
Art Unit 2155
August 21, 2006